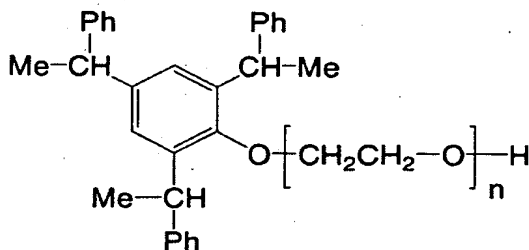


In contrast, Suzuki et al. discloses "tristyryl phenyl ether added thereon with ethylene oxide" in Example 1, which would be understood by a person of ordinary skill in the art to be a compound represented as follows:



Upon comparison, it should be clear to the Examiner that the compound referred to in Suzuki et al. is a significantly different compound from those recited in present claim 1. In particular, the two compounds recited in claim 1 have sulfonate group ( $-SO_3^-$ ) or phosphonate group ( $-PO_3^{2-}$ ), which is electrically charged and strongly hydrophilic, while the Suzuki et al. compound does not have such a group.

Accordingly, the applicants strongly assert that the reference to "tristyryl phenyl ether added thereon with ethylene oxide" in Suzuki et al. can not suggest to nor motivate a person skilled in the art to use, or serve as a reasonable basis for trying the two compounds recited in present claim 1.

In response to the comments in the Advisory Action regarding the reference of Suwa et al. (JP 05-043402 A), this reference discloses "polyoxyethylene styrylphenyl ether sulfate" in the reference claim 1, Examples 1, 2, 5 and 6 and other places. Significantly, however, the reference does not specifically refer to "polyoxyethylene tristyrylphenyl ether sulfate salt" of the presently claimed invention.

Accordingly, the applicants have shown that neither Suzuki et al. nor Suwa et al. disclose or suggest "polyoxyethylene tristyrylphenyl ether sulfate salt" or "polyoxyethylene tristyrylphenyl ether phosphate salt". Consequently, it is quite clear that the two references could not provide any teaching or suggestion to motivate a person skilled in the art to combine a lignosulfonate surfactant with "polyoxyethylene tristyrylphenyl ether sulfate salt" or "polyoxyethylene tristyrylphenyl ether phosphate salt", as recited in present claim 1.

In addition, neither Suzuki et al. nor Suwa et al. refers to a degree of sulfonation of a lignosulfonate surfactant, which is defined as "at least 2.0" in claim


1. As shown in the Rule 132 Declaration filed in the subject application on June 27, 2008, the use of a certain type of lignosulfonate surfactant provides a significant benefit for the presently claimed invention. The cited reference of Deming et al. (US 5,354,742), does not remedy the above described deficiencies of Suzuki et al. and Suwa et al. and a person of ordinary skill in the art could not expect the significant benefits of the presently claimed invention based on the disclosure of the presently cited prior art.

The applicants submit that the Amendment filed April 29, 2008, the Preliminary Submission with Rule 132 Declaration filed June 27, 2008, and the presently filed Second Preliminary Submission provide compelling evidence and arguments demonstrating the allowability of the presently claimed invention under 35 USC 103(a) in view of the prior art.

Accordingly, it is believed that this application is in condition for allowance and a Notice to that effect is respectfully requested.

Respectfully submitted,

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## **TECHNICAL REFERENCE**

**Chemical Abstract Database Output Showing The  
Chemical Formula Of Polyoxyethylene  
Tristyrylphenyl Ether Sulfate Sodium Salt**



## STN Tokyo

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Item	Date	Headline
NEWS 1	JUN 08	STN/CAS FILES Workshop Schedule - Japan (August 2008 - October 2008)
NEWS 2	APR 04	STN AnaVist, Version 1, to be discontinued
NEWS 3	APR 15	WPIDS, WPINDEX, and WPIX enhanced with new predefined hit display formats
NEWS 4	APR 28	EMBASE Controlled Term thesaurus enhanced
NEWS 5	APR 28	IMSRESEARCH reloaded with enhancements
NEWS 6	MAY 30	INPAFAMDB now available on STN for patent family searching
NEWS 7	MAY 30	DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option
NEWS 8	JUN 06	EPFULL enhanced with 260,000 English abstracts
NEWS 9	JUN 06	KOREAPAT updated with 41,000 documents
NEWS 10	JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS 11	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS 12	JUN 25	CA/Capplus and USPAT databases updated with IPC reclassification data
NEWS 13	JUN 30	AEROSPACE enhanced with more than 1 million U.S. patent records
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NEWS 15	JUN 30	STN on the Web enhanced with new STN AnaVist Assistant and BLAST plug-in
NEWS 16	JUN 30	STN AnaVist enhanced with database content from EPFULL
NEWS 17	JUL 28	CA/Capplus patent coverage enhanced
NEWS 18	JUL 28	EPFULL enhanced with additional legal status information from the epoline Register
NEWS 19	JUL 28	IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS 20	JUL 28	STN Viewer performance improved
NEWS 21	AUG 01	INPADOCDB and INPAFAMDB coverage enhanced
NEWS 22	AUG 13	CA/Capplus enhanced with printed Chemical Abstracts page images from 1967-1998
NEWS 23	AUG 15	CAOLD to be discontinued on December 31, 2008
NEWS 24	AUG 15	CAplus currency for Korean patents enhanced
NEWS 25	AUG 25	CA/Capplus, CASREACT, and IFI and USPAT databases enhanced for more flexible patent number searching
NEWS 26	AUG 27	CAS definition of basic patents expanded to ensure comprehensive access to substance and sequence information

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L1 1 108914-57-4/RN

=> dis l1

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN

RN 108914-57-4 REGISTRY

ED Entered STN: 28 Jun 1987

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[2,4,6-tris(1-phenylethyl)phenoxy]-, sodium salt (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Polyethylene glycol mono(tristyrylphenyl)ether sodium sulfate

DR 70559-26-1, 115892-97-2, 117469-13-3, 206132-92-5

MF (C2 H4 O)<sub>n</sub> C30 H30 O4 S . Na

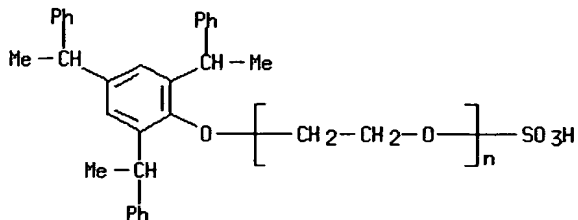
CI PMS

PCT Polyether

SR CA

LC STN Files: CA, CAPLUS, CHEMLIST, USPATFULL

CRN (106715-95-1)



# Na

7 REFERENCES IN FILE CA (1907 TO DATE)

7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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ENTRY	SESSION
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